This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of verifying a bearing gap between a shaft and a shaft seat of a hydrodynamic bearing, comprising the steps of:

positioning the shaft into its functional position within the shaft seat of a test bearing;

causing a measuring fluid to flow through the bearing gap by first attaching a hood of a feeding device to one end of the test bearing and then introducing the measuring fluid into the bearing gap through a feeding device such that said feeding device seals the bearing gap and a seal is positioned between an end face of the hood and the shaft seat; and

measuring one or more parameters characterizing the through-flow of the fluid through the bearing gap.

- 2. (Original) The method according to claim 1, wherein the verification is performed before final assembly of the hydrodynamic bearing.
- 3. (Original) The method according to claim 1, wherein the verification is performed before a lubricant is introduced into the bearing gap.
- 4. (Original) The method according claim 1, wherein the measuring fluid is a gaseous measuring fluid.

- 5. (Original) The method according to claim 1, wherein the measuring fluid flows through the bearing gap in a flow direction which is substantially parallel to a longitudinal axis of the shaft.
- 6. (Original) The method according to claim 1, wherein the measuring fluid is introduced into the bearing gap in such a way as to result in a non-turbulent flow state of the measuring fluid.
- 7. (Original) The method according to claim 1, wherein the test bearing comprises an open end at each end of the shaft seat for the through-flow of fluid.
- 8. (Original) The method according to claim 7, wherein the measuring fluid flows through the test bearing from one open end.
- 9. (Original) The method according to claim 1, wherein the measuring fluid is introduced to the test bearing with a specific start pressure.
- 10. (Original) The method according to claim 9, further comprising a step of measuring the difference in pressure compared to the start pressure as a parameter characterizing the through-flow of fluid.
- 11. (Original) The method according to claim 9, further comprising a step of measuring the start pressure before introducing the measuring fluid into the test bearing.
- 12. (Original) The method according to claim 1, wherein the shaft is fixed in its functional position with respect to the direction of the through-flow.

- 13. (Original) The method according to claim 1, wherein a contact element is applied to the shaft preventing the movement of the shaft in the direction of through-flow.
- 14. (Original) The method according to claim 13, wherein a force is exerted on the shaft in the direction opposite to the through-flow direction, said force being greater than a lift force of the measuring fluid on the shaft.
- 15. (Original) The method according to claim 1, further comprising a step of classifying the test bearing in accordance with the measurement results verified in said measuring step.
- 16. (Original) The method according to claim 15, wherein said measurement results are determined after quasi-stationary conditions have been reached.
- 17. (Currently Amended) A device to verify a bearing gap between a shaft and a shaft seat of a test hydrodynamic bearing, said device comprising:

an admission device to introduce measuring fluid into the bearing gap of the test bearing; and

a measuring device to measure at least one parameter characterizing the fluid through-flow through the bearing gap-;

wherein the admission device comprises a feeding device through which the measuring fluid is introduced into the bearing gap at one end thereof, wherein said feeding device further comprises a hood said hood being configured to attach to one end of the test bearing; wherein said feeding device seals the bearing gap; and wherein a seal is positioned between an end face of the hood and the shaft seat.

- 18. (Original) The device according to claim 17, further comprising a pressure reducer defining a start pressure of the measuring fluid before said measuring fluid is introduced into the bearing gap.
- 19. (Original) The device according to claim 17, wherein the measuring device includes at least one pressure sensor.
- 20. (Original) The device according to claim 19, wherein at least one pressure sensor is arranged before the test bearing in relation to the direction of fluid flow.
- 21. (Original) The device according to claim 19, wherein at least one pressure sensor measures a pressure difference between a start pressure of measuring fluid introduced into said bearing gap and a resulting pressure of through-flow measuring fluid emerging from the bearing gap.
 - 22. (Cancelled)
- 23. (Original) The device according to claim 17, further comprising a holding device positioning the shaft in its functional position in the shaft seat.
- 24. (Original) The device according to claim 23, wherein the holding device comprises a contact element preventing the movement of the shaft in the through-flow direction.
- 25. (Original) The device according to claim 23, wherein the holding device comprises a force exerting device exerting a force on the shaft in the direction opposite to the through-flow direction of the measuring fluid.